

## Micro Termination Resistors



Two termination resistors are required on every NMEA 2000 network, one on each end of the trunk line. Normally, a male termination is used since male pins tend to point back to the power source. In cases where the gender is reversed, a female terminator may be required. The inline terminator is used where the network is terminated at a product, for example a GPS or weather station at the top of a mast.

- Screw terminal connector for positive connections
- Termination resistors are used to terminate both ends of the trunk line

## Micro Bulkhead Feed-Thru



The Bulkhead Feed-Thru allows ease of installation through panels or bulkheads and establishes future connection points in a network installation. The bulkhead feed-thru also maintains the integrity of watertight bulkheads by providing a waterproof seal and connection.

- Features rugged keyways for positive alignment of connections
- Waterproof rated to IP67

## Multiport Box (Micro/Mid Male Homerun / Micro-Mid Female Drops)

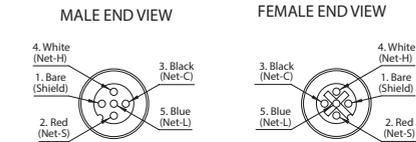
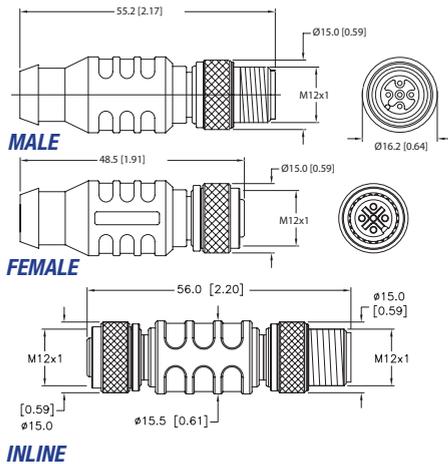


Multiport boxes allow several drop cables to be consolidated and connected back to the trunk, which eliminates the need to have numerous tees connected near a single point. Multiport boxes connect back to the trunk through a double-ended cordset and Tee.

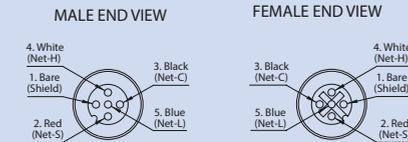
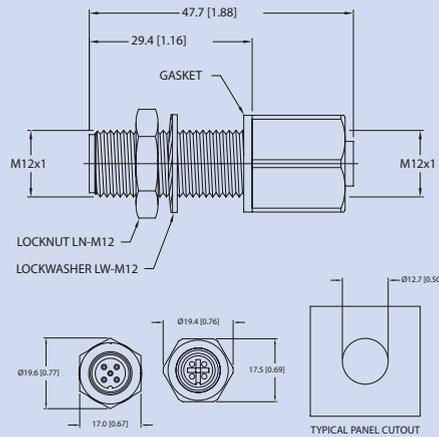
- Ideal for consolidating many connections; for example behind dashboards
- Requires the purchase of an additional double-ended cordset for connection back to the trunk

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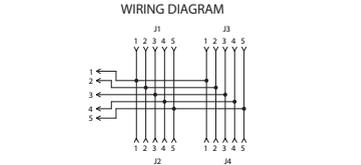
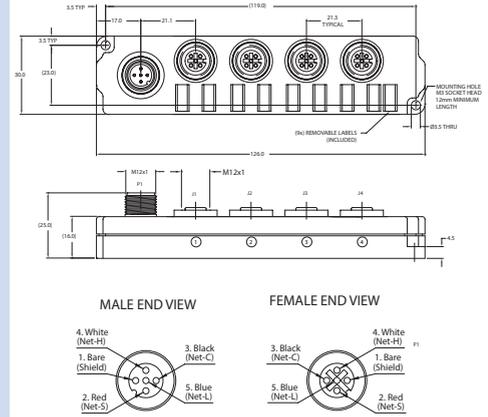
## Micro Termination Resistors



## Micro Bulkhead Feed-Thru



## Multiport Box (Micro-Mid Male Homerun / Micro-Mid Female Drops)



## Specifications

<b>MECHANICAL</b>	
Molded Body Mat/Color:	Thermoplastic PUR/Blue-Gray – <b>TR-CM, TR-CF</b>
Contact Carrier Mat/Color:	Thermoplastic PUR/Black – <b>IT-CM-CF</b>
Contact Mat/Plating:	Thermoplastic PUR/Blue-Gray – <b>TR-CM, TR-CF</b>
Brass/Gold	Thermoplastic PUR/Black – <b>IT-CM-CF</b>
Coupling Nut Mat/Plating:	Brass/Nickel
<b>ELECTRICAL</b>	
Rated Voltage:	10-30 V DC
Internal Resistor:	120 Ohms (1/2 W) – <b>TR-CM, TR-CF</b>
	121 Ohms (1/4 W) – <b>IT-CM-CF</b>
<b>ENVIRONMENTAL</b>	
Protection Class:	IEC IP68, NEMA 1,3,4,6P
<b>APPROVALS</b>	
NMEA:	NMEA 2000® APPROVED
IEC:	IEC 61162-3

## Products

PART NUMBER	DESCRIPTION
TR-CM	Micro Termination Resistor (Male)
TR-CF	Micro Termination Resistor (Female)
IT-CM-CF	Micro Inline Terminator

## Specifications

<b>MECHANICAL</b>	
Contact Carrier Mat/Color:	PA 6 (Nylon)/Blue-Gray
Contact Mat/Plating:	Brass/Gold
Housing Mat/Plating:	Brass/Nickel
Gasket Material:	Nitrile (Buna N)
Accommodates Wall (thick):	.40" (1.0 mm) to .875" (22.2 mm)
<b>ELECTRICAL</b>	
Voltage Rating:	250 V
Max Amperage:	4.0 Amps
Number of Conductors:	5x22 (0.65mm) AWG
<b>ENVIRONMENTAL</b>	
Protection Class:	IEC IP67, NEMA 1,3,4,6
Temperature Range:	-40°C to 105°C (-40°F to 221°F)
<b>APPROVALS</b>	
NMEA:	NMEA 2000® APPROVED
IEC:	IEC 61162-3

## Products

PART NUMBER	DESCRIPTION
BHF-CM-CF	Micro Bulkhead Feed-Thru

## Specifications

<b>MECHANICAL</b>	
Housing Mat/Color:	Nylon/Blue-Gray
Receptacle Mat/Plating:	Brass/Nickel
Contact Carrier Mat/Color:	Nylon/Black
Contact Mat/Plating:	Brass/Gold
<b>ELECTRICAL</b>	
Operating Voltage:	250 V
Operating Current:	4.0 Amps
<b>ENVIRONMENTAL</b>	
Protection Class:	IP67 – when receptacles are covered
Operating Temperature:	-30°C to 80°C (-22°F to 176°F)
<b>APPROVALS</b>	
NMEA:	NMEA 2000® Approved
IEC:	IEC 61162-3

## Products

PART NUMBER	DESCRIPTION
CM-CF-4	Multiport Box (Micro-Mid Male Homerun / Micro-Mid Female Drops)